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(Red)

SITE OPERATIONS PLAN

McADOO ASSOCIATES (BLAINE STREET) SITE
INITIAL REMEDIAL MEASURE

EPA WORK ASSIGNMENT
NUMBER 09-3L12.0 (REMEDIAL INVESTIGATION)
NUMBER 09-3R12 (INITIAL REMEDIAL MEASURES)
CONTRACT NUMBER 68-01-6699

NUS PROJECT NUMBER S712 (0712.22)

OCTOBER 1984

PRELIMINARY

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SUBMITTED FOR NUS BY:

STEPHEN F. PEDERSEN, P.E.
PROJECT MANAGER

APPROVED:

DONALD SENOVICH
MANAGER, REMEDIAL PLANNING

PRELIMINARY

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1.0 OBJECTIVE

The objective of the Site Operations Plan is to initiate and coordinate activities relating to the McAdoo Associates (Blaine Street) Site prior to and during the active phase of the Initial Remedial Measure (IRM).

The primary objective of the IRM is the excavation, removal, and disposal of the four onsite buried tanks that previously contained hazardous wastes. This work is to be completed by a subcontractor. An additional objective is to determine whether or not the soil surrounding and below the tanks is contaminated due to tank leakage. To make this determination, field scans and soil samplings and analysis will be made during the excavation phase. Test results and related information will be used to determine subsequent activities as outlined by the "Decision Guide," which is located in Appendix A.

2.0 PROJECTED STAFF

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- Project Manager: The project manager is responsible for the overall project performance.

- Site Representative: The site representative will monitor the performance of the subcontractor. It is his responsibility to see that the contract specifications are followed.

- Site Health and Safety Representative: The Site H & S representative is responsible for developing the health and safety requirements for the McAdoo Associates (Blaine Street) Site. He also will provide health and safety training to the subcontractor and oversee compliance with the site health and safety requirements.

- Samplers: If additional staff are needed for sampling besides the site representative, they will be provided.

3.0 SCHEDULE OF EVENTS

Events that will occur during the months of October, November, and December, 1984, are listed below:

- A field survey will be performed at the site. (This survey was completed in October)

- A temporary fence, consisting of 4-inch by 4-inch wooden posts and plywood sheeting, will be installed around the perimeter of the site. Some tree clearing may be needed to complete this installation. Diversion ditches and silt collection fences will also be installed.

- All grass, topsoil, and bushes will be cleared from the surface of the site and stockpiled.

- The office trailer will be installed.

- The tanks will be excavated, secured for transportation, and removed from the site.

- Excavated soils and soils below each tank will be screened using head-space gas monitoring. Representative soil samples will be sent to Contract Laboratory Program (CLP) laboratories for fast-turnaround analysis.

- After the fourth tank is removed, a decision will be made as to whether additional soils will be removed. Any contaminated soils in the excavation will be removed and placed on the stockpile. Previously excavated soils that are not contaminated may be used for backfill in the excavation. Contaminated soils will be covered with an impervious membrane until they can be removed at a later time. Clean fill will then be used to return the excavation to grade. All backfill will be compacted.

- Excavation will be conducted in the area where a fifth tank is reported to have been buried. If this tank exists, its contents will have to be analyzed. It will then have to be excavated and removed off site in the same manner as the other tanks.

- Once backfilling is completed, a layer of clean aggregate will be placed over the site, graded, and rolled.

4.0 HEALTH AND SAFETY REQUIREMENTS

A site-specific Health and Safety Plan is included as Appendix B. This plan is to be adhered to by all persons performing activities on the site including all subcontractors.

NUS will provide an onsite Health and Safety Inspector to provide safety training to subcontractors, conduct air monitoring, inspect the tanks prior to welding or entering the tanks, if these activities are necessary, and provide consulting.

The local Fire Marshall, Larry Postupack, desires to inspect the tanks and soil during the excavation process. He should be notified through the Borough of McAdoo, (717) 929-1182, prior to beginning onsite work.

Onsite workers have been determined to require normal working clothes. These consist of cloth coveralls, work gloves, hard hats, and safety shoes and/or safety boots.

5.0 APPLICABLE QA REQUIREMENTS AND OPERATING GUIDELINES

The NUS Superfund Division Operating Guidelines (OG) and Quality Assurance Procedures (QAP) are intended to provide general technical guidance for project activities and to ensure quality work. Applicable operating guidelines and quality assurance procedures would include but not limited to the following:

QAP 4.1 Field Data Collection
OG 4.7 Groundwater Sampling
OG 4.13 Field Exploratory Test Pits and Trenches
OG 4.18 Chain of Custody
OG 4.19 Sample Packaging and Shipping
OG 4.29 Sampling
OG 4.38 Sampling from Test Pits and Trenches
OG 4.42 Wipe Sampling
OG 5.2 Respiratory Protection
OG 5.4 HNU Photoionization Detection Operation
OG 5.5 Organic Vapor Analyzer Operations
QAP 8.1 Control of Procurement Activities
QAP 8.2 Evaluation and Selection of Subcontractor

6.0 GROUND SURVEY

The site property line will be surveyed and staked with a minimum of four corner points. A courthouse title search will be required. A topographic survey of the site and immediate sampling area will also be made, which will include ground contours, surface drainage patterns, building locations, and filler pipe locations. The surveyor shall provide a boundary-topographic drawing and copies of field notes. The surveying procedures, standards of accuracy, and documentation required are outlined in Appendix C, Standard Surveying Procedures: Primary and Secondary Control Traverse.

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APPENDIX A

DECISION GUIDE FOR SOIL ANALYSES

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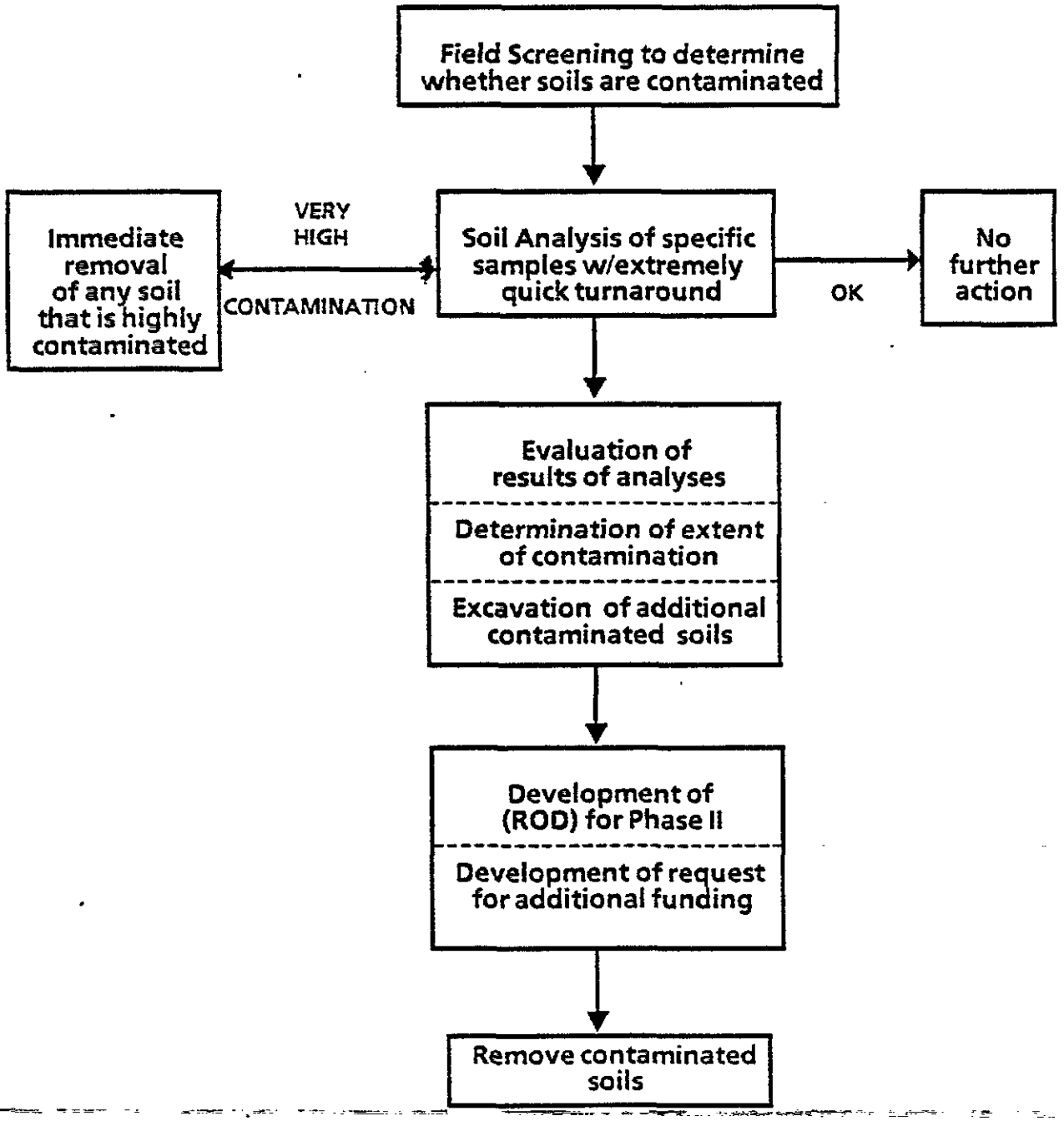
APPENDIX A
DECISION GUIDE FOR SOIL ANALYSES



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APPENDIX B

SITE-SPECIFIC HEALTH AND SAFETY PLAN

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APPENDIX C

STANDARD SURVEYING PROCEDURES

PRIMARY AND SECONDARY CONTROL TRAVERSE

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APPENDIX C
STANDARD SURVEYING PROCEDURES
PRIMARY AND SECONDARY CONTROL TRAVERSE

1.0 PURPOSE AND SCOPE

1.1 Standard Surveying Procedure, Primary and Secondary Control Traverse, prescribes the method for running traverse lines for providing ground control, boundary survey, and various other uses for baseline control.

1.2 Standard Surveying Procedure, Primary and Secondary Control Traverse, applies to the horizontal and vertical method of establishing control survey points.

1.3 Standard Surveying Procedure, Primary and Secondary Control Traverse, will assure the accuracy and provide quality control in preventing error.

2.0 SURVEYING PROCEDURE

Surveying procedures shall conform to the following:

2.1 Horizontal Control establishment will be accomplished through a field traverse with permanent control points being set. Control will begin and terminate at known points of reference, or will be a closed geometric loop. Traverse points will be referenced to telephone poles, trees, or other permanent land marks.

2.1.1 Angular measurement will be made with a theodolite capable of reading to the nearest 20 seconds minimum. The angular measurement will be repeated four (4) times with an average measurement used. The total angular error for primary survey traverse is not to exceed 5 seconds times the square root of the total number of traverse stations in the primary traverse. Secondary control survey traverse requires a total angular tolerance error not to exceed 10 times the square root of the total number of traverse stations in the secondary traverse.

2.1.2 Distance measurements will be with an EDM (Electronic Distance Meter). Measurements between stations will be recorded from both stations.

2.2 Leveling will be by differential leveling methods only (no trigonometric leveling). Bench mark points will be turned on as a part of the level circuit. Only previously adjusted turning points will be used as bench marks.

3.0 STANDARD OF ACCURACY

Survey procession will be maintained throughout the project activity by adhering to the standards of accuracy.

3.1 Horizontal angular measurement will be repeated four times and will require an average angle within 15 seconds of the initial measurement used. The total tolerable angular error for Primary survey traverse is 5 seconds times the square root of the total number of traverse stations. Secondary control survey traverse required a total angular tolerance error of 10 seconds times the square root of the total number of traverse stations.

Distance measurements will be taken to the nearest 0.001 of a foot. An EDM (Electronic Distance Meter) shall be used with the proper adjustment for atmospheric pressure and temperature. Measurements between stations will be recorded from both stations. Both primary and secondary control survey error is not to exceed 0.005 feet per 100 feet. Distance measurement taken on a slope will require a vertical angle measurement to within the nearest 10 seconds.

3.2 Vertical control will be established on traverse points and on bench marks. The elevation on these points shall be determined through a closed level circuit. Each point will be a turning point of the circuit and tolerance of closure will not exceed 2.0 millimeter per kilometer.

4.0 DOCUMENTATION

Field survey notes will be accurately recorded by the survey crew chief in a clear and legible manner.

4.1 The field notebook shall include the following notations.

a. First page of daily activity will be dated and include the names/duties of field crew personnel (first initial and last name).

b. Also on this page, a job title, project number, instrument numbers, weather, and any other pertinent information to that day's activities shall be so noted.

c. Information that has been used on the survey shall be clearly noted and referenced; any assumption made shall be so noted; and calculations by the party chief shall be recorded. All information in the notebook shall be complete and clear.